Smart Skies			
2005 Mathematics			
Grade Level and High School Content Expectations			
Michigan Mathematics			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Fly by Math	MI	MA.5.D.RE.05.01	Read and interpret line graphs, and solve problems based on line graphs, e.g., distance-time graphs, and problems with two or three line graphs on same axes, comparing different data.
Line Up with Math	MI	MA.5.D.RE.05.01	Read and interpret line graphs, and solve problems based on line graphs, e.g., distance-time graphs, and problems with two or three line graphs on same axes, comparing different data.
Smart Skies			
2005 Mathematics			
Grade Level and High School Content Expectations			
Michigan Mathematics			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Fly by Math	MI	MA.6.A.PA.06.01	Solve applied problems involving rates, including speed, e.g., if a car is going 50 mph, how far will it go in 3½ hours?
Fly by Math	MI	MA.6.A.RP.06.02	Plot ordered pairs of integers and use ordered pairs of integers to identify points in all four quadrants of the coordinate plane.
Fly by Math	MI	MA.6.A.RP.06.10	Represent simple relationships between quantities using verbal descriptions, formulas or equations, tables, and graphs, e.g., perimeter-side relationship for a square, distance-time graphs, and conversions such as feet to inches.
Line Up with Math	MI	MA.6.A.PA.06.01	Solve applied problems involving rates, including speed, e.g., if a car is going 50 mph, how far will it go in 3½ hours?
Line Up with Math	MI	MA.6.A.RP.06.02	Plot ordered pairs of integers and use ordered pairs of integers to identify points in all four quadrants of the coordinate plane.
Line Up with Math	MI	MA.6.A.RP.06.10	Represent simple relationships between quantities using verbal descriptions, formulas or equations, tables, and graphs, e.g., perimeter-side relationship for a square, distance-time graphs, and conversions such as feet to inches.
Smart Skies			
2005 Mathematics			
Grade Level and High School Content Expectations			
Michigan Mathematics			
Grade 7			

Activity/Lesson	State	Standards	
Fly by Math	MI	MA.7.A.PA.07.04	For directly proportional or linear situations, solve applied problems using graphs and equations, e.g., the heights and volume of a container with uniform cross-section; height of water in a tank being filled at a constant rate; degrees Celsius and degrees Fahrenheit; distance and time under constant speed.
Fly by Math	MI	MA.7.D.RE.07.01	Represent and interpret data using circle graphs, stem and leaf plots, histograms, and box-and-whisker plots, and select appropriate representation to address specific questions.
Line Up with Math	MI	MA.7.N.FL.07.03	Calculate rates of change including speed.
Line Up with Math	MI	MA.7.A.PA.07.04	For directly proportional or linear situations, solve applied problems using graphs and equations, e.g., the heights and volume of a container with uniform cross-section; height of water in a tank being filled at a constant rate; degrees Celsius and degrees Fahrenheit; distance and time under constant speed.
Line Up with Math	MI	MA.7.A.PA.07.06	Calculate the slope from the graph of a linear function as the ratio of “rise/run” for a pair of points on the graph, and express the answer as a fraction and a decimal; understand that linear functions have slope that is a constant rate of change.
Smart Skies			
2005 Mathematics			
Grade Level and High School Content Expectations			
Michigan Mathematics			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Line Up with Math	MI	MA.8.A.PA.08.02	For basic functions, e.g., simple quadratics, direct and indirect variation, and population growth, describe how changes in one variable affect the others.
Smart Skies			
2007 Mathematics			
Grade Level and High School Content Expectations			
Michigan Mathematics			
Grades 9-12			
Activity/Lesson	**State**	**Standards**	
Fly by Math	MI	MA.9-12.L1.2.4	Organize and summarize a data set in a table, plot, chart, or spreadsheet; find patterns in a display of data; understand and critique data displays in the media.
Fly by Math	MI	MA.9-12.A1.2.9	Know common formulas and apply appropriately in contextual situations.
Line Up with Math	MI	MA.9-12.A1.2.9	Know common formulas and apply appropriately in contextual situations.

Line Up with Math	MI	MA.9-12.A2.3.2	Describe the tabular pattern associated with functions having constant rate of change (linear); or variable rates of change.
Line Up with Math	MI	MA.9-12.A2.4.4	Use methods of linear programming to represent and solve simple real-life problems.